Grade: 9 / MYP-3 Duration: 8 weeks

**Project 2: UAE School Database.**

**MYP unit question:**

*How ICT can be used to assist local community in UAE to find a suitable school for education?*

**Area of interaction: *Community and Service.***

Students will use appropriate software to create an application (Module) for the successful listing of all schools available in different emirates of UAE with essential details organised in an easy to access format for the local community.

**Approaches to Learning:**

Organization, Information Literacy and Reflection.

**Design Cycle**

In this project students will be graded on the following Design Cycle Criterions:

1. Investigate
2. Design
3. Plan
4. Create
5. Evaluate
6. Attitudes in Technology.

**Introduction to the Project:**

Finding a good school for the children in UAE is undoubtedly the number one priority for any expatriating parents. Some opt for a local school. Others rather prefer an alternative, such as international school.  The choice is often difficult and the implications potentially far reaching. So how do you get it right?

Once you’ve made a detailed search on the internet and through different sources, contact them directly for detailed information. It’s also a good idea to visit any school before you make a final decision. Make sure you find out what the school’s attitude is towards the realities and needs of multilingual children and what kind of support is given to families that do not speak the local language at home.   
  
Also check out the social aspects, the curriculum, the kind of qualifications and the extent to which parents are encouraged to be involved with the school. If your child is likely to go on to higher education, you also need to find out how attending a particular school will affect any future plans.

All these are some of the issues encountered by the local and expat communities in the educational sector. Currently a detailed list of schools and curricula offered are not available in an organized format. Parents need to visit most of the nearby schools personally to find the best choice for their children. Again it takes a lot of time and effort to find the most suitable schools for their children.

To overcome this situation and help find a suitable school in UAE, you have been asked to create a detailed and up-to-date School information system with the help of technology as part of the MYP project in grade 9.

**Investigate**

1. The students identify the problem to be solved.
2. They will also investigate on the importance of an efficient data management application and its uses.
3. They compare different data management applications.
4. They develop the design brief.
5. They formulate the Design specification.
6. They will word Process all their research and present it as a report.
7. They should maintain a PROCESS JOURNAL.

***Criterion A: Investigation Section (6 marks)***

|  |  |
| --- | --- |
| **Lesson-1&2 INVESTIGATION**  Identify the Problem: | Discuss the need for the Product in this community.   1. What is the issue that the product addresses? 2. Why is the problem important? 3. Students start Process Journal |
| **Lesson-3**  **INVESTIGATION**  Develop the Design Brief: | * State your design brief clearly.(Proposed solutions to the problem) * Think about what topics needs to be researched, so that you will be able to develop your product in line with your vision to help the community. * Get some feedbacks on how the present system works and research on possible solutions. * Research on the features of the software application you are planning to use. * List your sources clearly |
| **Lesson-4**  **INVESTIGATION**  Formulate the Design Specification: | * Create a list of requirements that you think your finished product should meet. * Design tests to evaluate the product against your design specification. |

***Criterion B: Design Section (6 marks)***

In design students need to create sketches of the different modules of the proposed database solution. This may include detailed diagrams of table design, forms, reports and queries. Design is limited to three drafts with all features and feedbacks from end user/users included with detailed comments and features of each section highlighted.

|  |
| --- |
| **What to include** |
| Design Idea 1 - Fully labeled and explained in detail. Include features of table design, form, query and reports.  Analyse and Evaluate your design using your Design Specifications. |
| Comparison table – Compare your Ideas against your Design  Specifications |
| ‘Testing’ of your Ideas: You must show your tests and results.  Results may be shown in a table. |
| Choosing your Final Idea – Using the information above, fully justify your  Final Choice (explain in detail why you have chosen it). Here is where you explain any modifications to your Design Ideas and your Final Idea. |

***Criterion C: Plan Section (6 marks)***

|  |  |
| --- | --- |
| **What to include** | |
| **Resources** | Did you list all the resources available? |
| **Tasks** | Process of Making – A step-by-step detailed guide of how you will make your end product. Like a recipe, you must list your materials, quantities, colours, measurements, software, time predicted at each stage and instructions as to how you intend to make it. Have you included photos, sketches or screen shots to help make your plan easier to follow |
| Reflect | Critically evaluate your plan. Was the plan detailed enough for someone else to follow? (why/why not?). Did you use all the resources available? (why/why not?). Is your time frame realistic? Have you justified any modifications that seem necessary at this stage to your original final idea?  Do you need to change your timeline? Does your plan need to be rewritten? If yes, do so! |

|  |  |
| --- | --- |
| ***Criterion D: Create Section (6 marks)*** | **What you should include** |
| * Keep a detailed process journal which shows what you do at each stage. Remember to include photos, screen shots of your final product. | |

* You explain why and justify the modifications made from your design.

|  |
| --- |
| **What to include** |
| I have a cover sheet with my name and the word CREATE |
| I have included the Create stage in my Time-plan |
| I kept dated daily records of the work I did in my journal/diary |
| I have photos or screen shots of each stage of making my product |
| I have explained the tools, processes, materials or help I used or got during each stage |
| I finished my product to the best of my ability |
| I explained and justified the things/steps that I changed in my Design/plan |

***Criterion E: Evaluate Section (6 marks)***

**Evaluation Guidelines**

* What was the goal of your project? What did your project attempt to do?
* What was the strongest aspect of the product? What's working best?
* What are you still unhappy with? What would you have wanted to continue to work on and why?
* Did you experiment with anything in this project? Did you try anything new as a technologist? How motivated/interested were you in the project? Was your motivation and interest constant?

|  |  |  |
| --- | --- | --- |
| 1. | **The Pr** | **oduct** |
|  | a. | How many of your design specifications did your product meet? |
|  | b. | If you had to do the project again, what would you change about the product? |
|  | c. | Who was the “user” of your product? |
|  | d. | What did this person say about your final product? |
|  | e. | Did you conduct a fair test, and do the results match your personal observations? |

2. **Your Performance**

a. In the Investigate stage:

1. Did you research the technology, the software , the needs of the user and the content of your solution
2. Did you set realistic and testable design specifications
3. Did you look at a wide variety of sources

b. Design

* + 1. Did you create more than three different designs
    2. Did you evaluate each design fairly or were you biased towards one of them from the start?

c. Plan

1. Did you know how you were going to build your project before you started or did you change a lot of things as you went along?
2. What does your answer above tell you about your plan?

d. Create

i. Did you use your time wisely in class

ii. Were you able to do everything you wanted to do

iii. What problems prevented you from achieving everything you wanted to do?

iv. Were these problems caused by planning, technical difficulties, or something else?

v. How could they have been avoided?

**3. Impact**

1. What difference did your final product make in the end?
2. Really! You didn’t save the earth, you didn’t educate the world, but what did your project teach you?
3. If your project was continued and improved, what do you predict would be the result

**Marks**

|  |  |
| --- | --- |
| **Criterion** | **Marks** |
| 1. Investigate (6) |  |
| 2. Design (6) |  |
| 3. Plan (6) |  |
| 4. Create (6) |  |
| 5. Evaluate (6) |  |
| 6. Attitude (6) |  |
| **Total (36)** |  |
| **Level** |  |

|  |  |
| --- | --- |
| Level | Marks |
| 1 | 0 - 3 |
| 2 | 4 - 8 |
| 3 | 9 - 13 |
| 4 | 14 - 19 |
| 5 | 20 - 24 |
| 6 | 25 - 29 |
| 7 | 30 - 36 |

**Reflection sheet – Project 2**

SELF ASSESSMENT

CHECKING MY OWN LEARNING

NAME:

DATE:

SUBJECT AREA: **TECHNOLOGY - COMPUTER STUDIES**

Assessment Results:

|  |  |  |  |
| --- | --- | --- | --- |
| Criteria | Maximum | Current Level Achieved | MY TARGET |
| **INVESTIGATION** | **6** |  |  |
| **DESIGN** | **6** |  |  |
| **PLAN** | **6** |  |  |
| **CREATE** | **6** |  |  |
| **EVALUATE** | **6** |  |  |
| **ATTITUDE** | **6** |  |  |
| MY EXPECTED GRADE FOR PROJECT 2: | | | |

**Wow and wonder**

|  |
| --- |
| The thing that impressed me the most in this project so far was … |

##### **My progress chart**

Insert a cross **(X)** in the box to show how far you think you have made progress in this unit.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Need a lot of help (1) → Can do very well (5)** | **1** | **2** | **3** | **4** | **5** |
| INVESTIGATION |  |  |  |  |  |
| DESIGN |  |  |  |  |  |
| PLAN |  |  |  |  |  |
| CREATE |  |  |  |  |  |
| EVALUATE |  |  |  |  |  |
| **AOI’s used in this project:** | | | | | | | |
| **ATL used in this project:** | | | | | | | |
| **Learner Profile in this unit :** | | | | | | | |

##### ***WHAT WAS THE BEST THING FOR ME IN THIS COURSE?***

|  |
| --- |
| *For me, the most useful aspect of this unit was…* |

##### And next…

|  |
| --- |
| I could improve my work by … |

Pupil’s signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: